

File No. 3.500 Franklin County  
Labadie Power Plant

NPDES Permit No. MO-0004812

September 3, 1982

Union Electric Company  
1901 Gratiot Street  
St. Louis, MO 63103

Dear Permittee:

Pursuant to the Federal Water Pollution Control Act, under the authority granted to the State of Missouri and in compliance with the Missouri Clean Water Law, we have issued and are enclosing your National Pollutant Discharge Elimination System (NPDES) Permit to Discharge from your above-referenced facility.

Please READ your Permit carefully: Your NPDES Permit to Discharge includes standard and special conditions which must be followed to remain in compliance with the requirements of the Federal Water Pollution Control Act and the Missouri Clean Water Law.

Monitoring reports required by the special conditions must be submitted on a periodic basis. Copies of the necessary report forms are enclosed. If you have any questions concerning these reports, please do not hesitate to call this office or our regional office in your area.

This NPDES Permit is both your Federal discharge permit and your new State operating permit and replaces all previous State operating permits for this facility. In all future correspondence regarding this facility, please refer to your NPDES Permit number, the facility name, and the file number listed at the top of this page.

I am sure that you appreciate the importance of eliminating pollution from our Nation's waters and will abide by the terms and conditions of the NPDES Permit. If you have any questions concerning this permit, please do not hesitate to call this office or our Regional Office at St. Louis Regional Office, 8460 Watson Road, St. Louis, Missouri 63119, phone: (314) 849-1313.

Robert H. Hentges  
Chief of Permit Section  
Water Pollution Control Program

RHH/lsr

Enclosure

CC: EPA - Permit Branch  
✓ Billing Dept. - Permit Branch  
St. Louis Regional Office

Christopher S. Bond Governor  
Fred A. Lafser Director

Division of Environmental Quality  
Robert J. Schreiber Jr., P.E. Director

MISSOURI DEPARTMENT OF NATURAL RESOURCES  
P.O. Box 1368 2010 Missouri Blvd. Jefferson City, Missouri 65102 (314) 751-3241

MISSOURI CLEAN WATER COMMISSION  
AUTHORIZATION TO DISCHARGE UNDER THE  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the Federal Water Pollution Control Act, Public Law 92-500, 92nd Congress, (Hereinafter, the Act) as amended, and the Missouri Clean Water Law, (Chapter 204 R.S. Mo. Cum. Supp. 1973, hereinafter, the Law),

Owner: Union Electric Company

Owner's Address: 1901 Gratiot Street, St. Louis, Missouri 63103

Facility Name: Labadie Power Plant

Facility Address: P.O. Box 67, Labadie, Missouri 63055

Legal Description: Parts of Sections 7, 18 and 19, T44N, R2E, Franklin County

Receiving Stream & Basin: Labadie Creek and Missouri River, Missouri River Basin

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

Coal fired steam electric power plant.



Outfall #001 - Once through cooling water with an average daily flow of 1,054,000,000 gallons.

Outfall #002 - Discharge from ash pond receiving ash sluicing water, coal pile runoff and various low volume wastes. The average daily flow is 14,100,000 gallons.

This permit shall become effective on September 3, 1982 . This permit may be appealed in accordance with Section 204.051.6 of the Law.

This permit and authorization to discharge shall expire at midnight, September 2, 1987.

Dated this 3rd day of September, 1982.

By  
Department of Natural Resources  
Permit Administrator for Missouri Clean Water Commission

# A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited, and monitored by the permittee as specified below:

Outfall Number and Effluent Parameter(s) Units of Measurement	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
	Daily Maximum mg/l (lb/day)	Weekly Average	Monthly Average mg/l (lb/day)	Measurement Frequency	Sample Type
<u>Outfall #001</u>					
Flow-m <sup>3</sup> /Day (MGD)	*		*	once/day	24 hr. total
Intake temperature	*		*	once/day	grab
Outfall temperature	*		*	once/day	grab
Thermal discharge (in- ternal energy increase)	10.63 x 10 <sup>9</sup> btu/hour			once/day	n/a
<u>Outfall #002</u>					
Flow-m <sup>3</sup> /Day (MGD)	*		*	once/week	24 hr. total
Intake Non-Filterable Residue (Total Suspended Solids)	*		*	once/week	grab
Outfall Non-Filterable Residue** (Total Suspended Solids)	100 (48038)		30 (14411)	once/week	grab
Oil and Grease	20 (9607)		15 (7205)	once/week	grab
pH - Units	***		***	once/week	grab
Sulfate (as SO <sub>4</sub> )	*		*	once/quarter	grab

Monitoring reports shall be submitted quarterly ; the first report is due 10-28-82.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

## B. STANDARD CONDITIONS

In addition to specified conditions stated herein, this permit is subject to the attached Part I standard conditions dated October 1, 1980 , and hereby incorporated as though fully set forth herein.

## C. SCHEDULE OF COMPLIANCE

Not applicable.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited, and monitored by the permittee as specified below:

Outfall Number and Effluent Parameter(s) Units of Measurement	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
	Daily Maximum	Weekly Average	Monthly Average	Measurement Frequency	Sample Type
* Monitoring requirement only.					
** Intake Non-Filterable Residue (Total Suspended Solids) values may be used to calculate "net" limitations however, permittee must continue to maintain the ash pond system for adequate retention time for settling. River solids present in intake water are "treated" in the ash pond system but treatment levels are dependent on concentration and types of river solids present in intake water.					
*** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0.					

Monitoring reports shall be submitted quarterly ; the first report is due 10-28-82.

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C. SCHEDULE OF COMPLIANCE

Not applicable.

D. SPECIAL CONDITIONS

1. This permit may be modified, or alternatively revoked and reissued, to comply with any applicable effluent limitations issued pursuant to the order the United States District Court for the District of Columbia issued in June 8, 1976, in Natural Resources Defense Council, Inc. et al. v. Russell E. Train, 8 ERC 2120 (D.D.C. 1976), if the effluent limitation so issued:
  1. is different in conditions or more stringent than any effluent limitation in the permit; or
  2. controls any pollutant not limited in the permit.
2. Changes in Discharge of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- a. That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
    - (1) One hundred micrograms per liter (100 µg/l), for any toxic pollutant except as indicated below;
    - (2) Two hundred micrograms per liter (200 µg/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
    - (3) Five (5) times the maximum concentration value reported for that pollutant in the permit application;
    - (4) The level established in Part A of the permit by the Director.
  - b. That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the permit application.
3. This permit authorizes the continued use of existing or new storm sewers to convey uncontaminated storm runoff. Such uncontaminated outfalls do not require monitoring or limitations. Also authorized is the continued return of uncontaminated river water to the river. Monitoring or limitations are not required for such outfalls.

E. OTHER REQUIREMENTS

1. There shall be no discharge of polychlorinated biphenyl compounds.
2. Discharge of wastewater from this facility must not alone or in combination with other sources cause the receiving stream to violate the following:
  - a. Water temperatures and temperature differentials specified in Missouri Water Quality Standards shall be met.
3. Any pesticide discharge from any point source shall comply with the requirements of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (7 U.S.C. 136 et. seq.) and the use of such pesticides shall be in a manner consistent with its label.
4. Except for any untreated overflow from facilities designed, constructed and operated to treat the volume of material storage runoff and construction runoff which is associated with a 10-year, 24 hour rainfall event; discharges resulting from material storage runoff and construction runoff shall comply with the following limitations:
  - 1) Total suspended solids shall not exceed 50 mg/l at any time.
  - 2) The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units at any time.